

Title (en)
DEVICE AND METHOD FOR TRANSCUTANEOUS DETERMINATION OF BLOOD GASES

Title (de)
VORRICHTUNG UND VERFAHREN ZUR TRANSKUTANEN BESTIMMUNG VON BLUTGASEN

Title (fr)
DISPOSITIF ET PROCÉDÉ DE DÉTERMINATION PAR VOIE TRANSCUTANÉE DE GAZ SANGUINS

Publication
EP 2144555 B1 20120530 (DE)

Application
EP 08749811 A 20080428

Priority
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• EP 2008055189 W 20080428

Abstract (en)
[origin: WO2008132205A1] The device for transcutaneous determination of blood gases with a transcutaneous sensor for measuring at least one of the parameters skin carbon dioxide partial pressure (PsCO₂) and skin oxygen partial pressure (PsO₂), comprises at least one sensor for measuring the tissue blood flow (F) locally around the transcutaneous sensor and also comprises a device for calculating at least one of the parameters transcutaneous carbon dioxide partial pressure (tcpCO₂) and transcutaneous oxygen partial pressure from the measured skin carbon dioxide partial pressure (PsCO₂) or the measured skin oxygen partial pressure (PsO₂), wherein on calculating of at least one of the parameters transcutaneous carbon dioxide partial pressure (tcpCO₂) and transcutaneous oxygen partial pressure (tcpO₂) a factor dependent on the local tissue blood flow (F) is taken into account.

IPC 8 full level
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